

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	113	flat adj panel adj speaker	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L2	671	transparent near4 diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L3	9	L1 and L2	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L4	4261549	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L5	2	L4 and L3	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L6	5	(diaphragm and transparent and vibrat\$3 and display and frame).clm.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L7	27	(diaphragm and transparent and display and frame).clm.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L8	9	("20020061114" "20030003879" "20030059080" "4618025" "4997058" "5394478" "6176345" "6332029" "6694038").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/06 12:26
L9	42	(US-20070032130-\$ or US- 20060028383-\$ or US- 20040097274-\$ or US- 20010053228-\$ or US- 20030026439-\$ or US- 20050049009-\$ or US- 20050064764-\$ or US- 20070047745-\$).did. or (US- 5870679-\$ or US-7064720-\$ or US-4857014-\$ or US-4913664- \$ or US-6217351-\$ or US- 4894026-\$ or US-5906512-\$ or US-6039580-\$ or US-6094161- \$ or US-6114986-\$ or US- 6174205-\$ or US-6183299-\$ or US-6215656-\$ or US-7221960- \$ or US-5475872-\$ or US- 5805985-\$ or US-6979231-\$ or US-4846720-\$ or US-4180819- \$ or US-4299434-\$ or US- 4370630-\$ or US-4381129-\$ or US-4396242-\$ or US-4989012- \$ or US-4992060-\$ or US- 5506455-\$).did. or (US- 5556292-\$ or US-5599199-\$ or US-5608606-\$ or US-5650921- \$ or US-5696861-\$ or US- 5775934-\$ or US-5928000-\$ or	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26

		US-5993239-\$ or US-6010352-\$ or US-RE36700-\$ or US-6079994-\$ or US-6099334-\$ or US-6283790-\$ or US-6296492-\$).did.				
L10	4	L9 and "455"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L11	4247	diaphragm near4 coil	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L12	51	L11 and "455"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L13	23	L12 and L4	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L14	58	diaphragm same (horizontal or lateral) near4 coil	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L15	4261549	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L16	29	L14 and L15	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L17	29707	"381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L18	4159	(speaker same (display or LCD or liquid near4 crystal)).clm.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L19	318	L17 and L18	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L20	27	L19 and diaphragm and @ad<="20031231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L21	894	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L22	521	L21 and @ad<="20031231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L23	119	L22 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L24	59	L23 and (display or screen or lcd)	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L25	894	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L26	50	L25 and magnet near4 (frame or diaphragm) and coil near4 (diaphragm or frame)	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L27	777	L25 and @ad<="200312231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L28	168	L27 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L29	13	L26 and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L30	1	"4352961".pn.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26

L31	1	"20060093165"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L32	1	direct near4 vibrat\$3 and flat near4 panel with speaker	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L33	10	direct\$2 near4 vibrat\$3 and flat near4 panel with speaker	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L34	149	direct\$2 near4 vibrat\$3 near4 diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L35	4595689	@ad<="20031231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L36	106	L34 and L35	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L37	23	L36 and \$4phone	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L38	0	("2006/0227981").URPN.	USPAT	OR	ON	2009/03/06 12:26
L39	5	L37 and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L40	1019	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388. ccls. or 381/124.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L41	607	L40 and L35	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L42	99	L41 and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L43	4120437	@ad<="20021231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L44	529	L40 and L43	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L45	85	L44 and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L46	28	L45 and diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L47	6	("3947644" "4352961" "5185549" "6023123" "6363157" "6427017").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/06 12:26
L48	12	L46 and coil and magnet	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L49	1212	coil and magnet same frame and vibrat\$3 and diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L50	4595689	@ad<="20031231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L51	730	L49 and L50	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L52	37	L51 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L53	11	L52 and \$4phone	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26

L54	3349	magnet same coil same diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L55	3805525	L54 @ad<="20020425"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L56	1934	L54 and @ad<="20020425"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L57	292	L56 and \$4phone	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L58	195	L57 and "381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L59	477	L56 and coil near4 (attached or connected or adhered) near4 diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L60	366	L59 and "381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L61	64	L60 and magnet\$2 near4 (attached or connected or adhered) near4 (frame or housing or cas\$3 or support)	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L62	265	381/333.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L63	4261549	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L64	163	381/333.ccls. and L63	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L65	12	("6427017").URPN.	USPAT	OR	ON	2009/03/06 12:26
L66	6	L65 and transparent	USPAT	OR	ON	2009/03/06 12:26
L67	2	"6289101".pn. or "6522760".pn.	USPAT	OR	ON	2009/03/06 12:26
L68	10	(US-20020034313-\$).did. or (US-7039206-\$ or US-6427017-\$ or US-6760455-\$ or US-6791519-\$ or US-6940564-\$ or US-7120264-\$ or US-7151837-\$ or US-6289101-\$ or US-6522760-\$).did.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L69	602330	coil or magnet and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L70	66504	(coil or magnet) and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L71	5	L68 and L70	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L72	4	L71 and L63	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L73	113	flat adj panel adj speaker	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L74	671	transparent near4 diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26

L75	9	L73 and L74	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L76	4261549	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L77	2	L76 and L75	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L78	5	(diaphragm and transparent and vibrat\$3 and display and frame).clm.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L79	27	(diaphragm and transparent and display and frame).clm.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L80	9	("20020061114" "20030003879" "20030059080" "4618025" "4997058" "5394478" "6176345" "6332029" "6694038").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/06 12:26
L81	42	(US-20070032130-\$ or US- 20060028383-\$ or US- 20040097274-\$ or US- 20010053228-\$ or US- 20030026439-\$ or US- 20050049009-\$ or US- 20050064764-\$ or US- 20070047745-\$).did. or (US- 5870679-\$ or US-7064720-\$ or US-4857014-\$ or US-4913664- \$ or US-6217351-\$ or US- 4894026-\$ or US-5906512-\$ or US-6039580-\$ or US-6094161- \$ or US-6114986-\$ or US- 6174205-\$ or US-6183299-\$ or US-6215656-\$ or US-7221960- \$ or US-5475872-\$ or US- 5805985-\$ or US-6979231-\$ or US-4846720-\$ or US-4180819- \$ or US-4299434-\$ or US- 4370630-\$ or US-4381129-\$ or US-4396242-\$ or US-4989012- \$ or US-4992060-\$ or US- 5506455-\$).did. or (US- 5556292-\$ or US-5599199-\$ or US-5608606-\$ or US-5650921- \$ or US-5696861-\$ or US- 5775934-\$ or US-5928000-\$ or US-5993239-\$ or US-6010352- \$ or US-RE36700-\$ or US- 6079994-\$ or US-6099334-\$ or US-6283790-\$ or US-6296492- \$).did.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L82	4	L81 and "455"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L83	4247	diaphragm near4 coil	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26

L84	51	L83 and "455"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L85	23	L84 and L76	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L86	58	diaphragm same (horizontal or lateral) near4 coil	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L87	4261549	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L88	29	L86 and L87	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L89	29707	"381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L90	4159	(speaker same (display or LCD or liquid near4 crystal)).clm.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L91	318	L89 and L90	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L92	27	L91 and diaphragm and @ad<="20031231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L93	894	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L94	521	L93 and @ad<="20031231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L95	119	L94 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L96	59	L95 and (display or screen or lcd)	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L97	894	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L98	50	L97 and magnet near4 (frame or diaphragm) and coil near4 (diaphragm or frame)	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L99	777	L97 and @ad<="200312231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L100	168	L99 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L101	13	L98 and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L102	1	"4352961".pn.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L103	1	"20060093165"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L104	1	direct near4 vibrat\$3 and flat near4 panel with speaker	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L105	10	direct\$2 near4 vibrat\$3 and flat near4 panel with speaker	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L106	149	direct\$2 near4 vibrat\$3 near4 diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26

L107	4595689	@ad<="20031231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L108	106	L106 and L107	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L109	23	L108 and \$4phone	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L110	0	("2006/0227981").URPN.	USPAT	OR	ON	2009/03/06 12:26
L111	5	L109 and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L112	1019	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388. ccls. or 381/124.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L113	607	L112 and L107	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L114	99	L113 and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L115	4120437	@ad<="20021231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L116	529	L112 and L115	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L117	85	L116 and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L118	28	L117 and diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L119	6	("3947644" "4352961" "5185549" "6023123" "6363157" "6427017").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/06 12:26
L120	12	L118 and coil and magnet	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L121	1212	coil and magnet same frame and vibrat\$3 and diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L122	4595689	@ad<="20031231"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L123	730	L121 and L122	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L124	37	L123 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L125	11	L124 and \$4phone	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L126	3349	magnet same coil same diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L127	3805525	L126 @ad<="20020425"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L128	1934	L126 and @ad<="20020425"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L129	292	L128 and \$4phone	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26

L130	195	L129 and "381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L131	477	L128 and coil near4 (attached or connected or adhered) near4 diaphragm	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L132	366	L131 and "381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L133	64	L132 and magnet\$2 near4 (attached or connected or adhered) near4 (frame or housing or cas\$3 or support)	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L134	265	381/333.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L135	4261549	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L136	163	381/333.ccls. and L135	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L137	12	("6427017").URPN.	USPAT	OR	ON	2009/03/06 12:26
L138	6	L137 and transparent	USPAT	OR	ON	2009/03/06 12:26
L139	2	"6289101".pn. or "6522760". pn.	USPAT	OR	ON	2009/03/06 12:26
L140	10	(US-20020034313-\$).did. or (US-7039206-\$ or US-6427017- \$ or US-6760455-\$ or US- 6791519-\$ or US-6940564-\$ or US-7120264-\$ or US-7151837- \$ or US-6289101-\$ or US- 6522760-\$).did.	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L141	602330	coil or magnet and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L142	66504	(coil or magnet) and transparent	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L143	5	L140 and L142	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
L144	4	L143 and L135	US-PGPUB; USPAT	OR	ON	2009/03/06 12:26
S1	87	flat adj panel adj speaker	US-PGPUB; USPAT	OR	ON	2007/11/15 13:19
S2	585	transparent near4 diaphragm	US-PGPUB; USPAT	OR	ON	2007/06/14 09:46
S3	7	S1 and S2	US-PGPUB; USPAT	OR	ON	2007/06/14 09:46
S4	4219138	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2007/06/14 09:46
S5	2	S4 and S3	US-PGPUB; USPAT	OR	ON	2007/06/14 09:46

S6	4	(diaphragm and transparent and vibrat\$3 and display and frame).clm.	US-PGPUB; USPAT	OR	ON	2007/06/14 09:53
S7	25	(diaphragm and transparent and display and frame).clm.	US-PGPUB; USPAT	OR	ON	2007/06/14 09:53
S8	9	("20020061114" "20030003879" "20030059080" "4618025" "4997058" "5394478" "6176345" "6332029" "6694038").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/14 09:56
S9	48	(US-20070032130-\$ or US- 20060028383-\$ or US- 20040097274-\$ or US- 20010053228-\$ or US- 20030026439-\$ or US- 20050049009-\$ or US- 20050064764-\$ or US- 20070047745-\$).did. or (US- 5870679-\$ or US-7064720-\$ or US-4857014-\$ or US-4913664- \$ or US-6217351-\$ or US- 4894026-\$ or US-5906512-\$ or US-6039580-\$ or US-6094161- \$ or US-6114986-\$ or US- 6174205-\$ or US-6183299-\$ or US-6215656-\$ or US-7221960- \$ or US-5475872-\$ or US- 5805985-\$ or US-6979231-\$ or US-4846720-\$ or US-4180819- \$ or US-4299434-\$ or US- 4370630-\$ or US-4381129-\$ or US-4396242-\$ or US-4989012- \$ or US-4992060-\$ or US- 5506455-\$).did. or (US- 5556292-\$ or US-5599199-\$ or US-5608606-\$ or US-5650921- \$ or US-5696861-\$ or US- 5775934-\$ or US-5928000-\$ or US-5993239-\$ or US-6010352- \$ or US-RE36700-\$ or US- 6079994-\$ or US-6099334-\$ or US-6283790-\$ or US-6296492- \$).did.	US-PGPUB; USPAT	OR	ON	2007/06/14 10:48
S10	6	S9 and "455"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2007/06/14 11:25
S11	3671	diaphragm near4 coil	US-PGPUB; USPAT	OR	ON	2007/06/14 11:26
S12	41	S11 and "455"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2007/06/14 11:26
S13	23	S12 and S4	US-PGPUB; USPAT	OR	ON	2007/06/14 12:31
S14	41	diaphragm same (horizontal or lateral) near4 coil	US-PGPUB; USPAT	OR	ON	2007/06/14 12:32

S15	4219138	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2007/06/14 12:32
S16	28	S14 and S15	US-PGPUB; USPAT	OR	ON	2007/06/14 12:32
S17	26466	"381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2007/11/13 11:47
S18	3421	(speaker same (display or LCD or liquid near4 crystal)).clm.	US-PGPUB; USPAT	OR	ON	2007/11/13 11:56
S19	261	S17 and S18	US-PGPUB; USPAT	OR	ON	2007/11/13 12:56
S20	26	S19 and diaphragm and @ad<="20031231"	US-PGPUB; USPAT	OR	ON	2007/11/13 12:56
S21	805	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388. ccls.	US-PGPUB; USPAT	OR	ON	2007/11/16 16:45
S22	506	S21 and @ad<="20031231"	US-PGPUB; USPAT	OR	ON	2007/11/15 13:20
S23	118	S22 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2007/11/15 14:12
S24	58	S23 and (display or screen or lcd)	US-PGPUB; USPAT	OR	ON	2007/11/15 14:13
S25	805	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388. ccls.	US-PGPUB; USPAT	OR	ON	2007/11/19 12:24
S26	43	S25 and magnet near4 (frame or diaphragm) and coil near4 (diaphragm or frame)	US-PGPUB; USPAT	OR	ON	2007/11/16 16:48
S27	688	S25 and @ad<="200312231"	US-PGPUB; USPAT	OR	ON	2007/11/16 16:46
S28	156	S27 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2007/11/16 16:46
S29	11	S26 and transparent	US-PGPUB; USPAT	OR	ON	2007/11/16 17:10
S30	1	"4352961".pn.	US-PGPUB; USPAT	OR	ON	2007/11/16 17:12
S31	1	"20060093165"	US-PGPUB; USPAT	OR	ON	2007/11/19 11:32
S32	0	direct near4 vibrat\$3 and flat near4 panel with speaker	US-PGPUB; USPAT	OR	ON	2007/11/19 11:45
S33	7	direct\$2 near4 vibrat\$3 and flat near4 panel with speaker	US-PGPUB; USPAT	OR	ON	2007/11/19 11:46
S34	131	direct\$2 near4 vibrat\$3 near4 diaphragm	US-PGPUB; USPAT	OR	ON	2007/11/19 11:46
S35	4547307	@ad<="20031231"	US-PGPUB; USPAT	OR	ON	2007/11/19 13:49
S36	104	S34 and S35	US-PGPUB; USPAT	OR	ON	2007/11/19 11:55
S37	23	S36 and \$4phone	US-PGPUB; USPAT	OR	ON	2007/11/19 12:20

S38	0	("2006/0227981").URPN.	USPAT	OR	ON	2007/11/19 12:19
S39	5	S37 and transparent	US-PGPUB; USPAT	OR	ON	2007/11/19 12:20
S40	923	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388. ccls. or 381/124.ccls.	US-PGPUB; USPAT	OR	ON	2007/11/19 12:24
S41	588	S40 and S35	US-PGPUB; USPAT	OR	ON	2007/11/19 12:24
S42	95	S41 and transparent	US-PGPUB; USPAT	OR	ON	2007/11/19 12:24
S43	4098797	@ad<="20021231"	US-PGPUB; USPAT	OR	ON	2007/11/19 12:26
S44	522	S40 and S43	US-PGPUB; USPAT	OR	ON	2007/11/19 12:26
S45	83	S44 and transparent	US-PGPUB; USPAT	OR	ON	2007/11/19 12:26
S46	27	S45 and diaphragm	US-PGPUB; USPAT	OR	ON	2007/11/19 12:45
S47	6	("3947644" "4352961" "5185549" "6023123" "6363157" "6427017").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 12:36
S48	11	S46 and coil and magnet	US-PGPUB; USPAT	OR	ON	2007/11/19 13:49
S49	1049	coil and magnet same frame and vibrat\$3 and diaphragm	US-PGPUB; USPAT	OR	ON	2007/11/19 13:49
S50	4547307	@ad<="20031231"	US-PGPUB; USPAT	OR	ON	2007/11/19 13:49
S51	719	S49 and S50	US-PGPUB; USPAT	OR	ON	2007/11/19 14:03
S52	37	S51 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2007/11/19 13:52
S53	11	S52 and \$4phone	US-PGPUB; USPAT	OR	ON	2007/11/19 14:10
S54	2995	magnet same coil same diaphragm	US-PGPUB; USPAT	OR	ON	2007/11/19 14:10
S55	3793281	S54 @ad<="20020425"	US-PGPUB; USPAT	OR	ON	2007/11/19 14:10
S56	1932	S54 and @ad<="20020425"	US-PGPUB; USPAT	OR	ON	2007/11/19 14:13
S57	292	S56 and \$4phone	US-PGPUB; USPAT	OR	ON	2007/11/19 14:11
S58	195	S57 and "381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2007/11/19 14:11
S59	476	S56 and coil near4 (attached or connected or adhered) near4 diaphragm	US-PGPUB; USPAT	OR	ON	2007/11/19 14:14
S60	366	S59 and "381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2007/11/19 14:14

S61	64	S60 and magnet\$2 near4 (attached or connected or adhered) near4 (frame or housing or cas\$3 or support)	US-PGPUB; USPAT	OR	ON	2007/11/19 14:15
S62	256	381/333.ccls.	US-PGPUB; USPAT	OR	ON	2008/04/23 10:42
S63	4245940	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2008/04/23 10:43
S64	163	381/333.ccls. and S63	US-PGPUB; USPAT	OR	ON	2008/04/23 10:43
S65	12	("6427017").URPN.	USPAT	OR	ON	2008/04/23 10:55
S66	6	S65 and transparent	USPAT	OR	ON	2008/04/23 10:56
S67	2	"6289101".pn. or "6522760".pn.	USPAT	OR	ON	2008/04/23 10:59
S68	10	(US-20020034313-\$).did. or (US-7039206-\$ or US-6427017-\$ or US-6760455-\$ or US-6791519-\$ or US-6940564-\$ or US-7120264-\$ or US-7151837-\$ or US-6289101-\$ or US-6522760-\$).did.	US-PGPUB; USPAT	OR	ON	2008/04/23 11:01
S69	566606	coil or magnet and transparent	US-PGPUB; USPAT	OR	ON	2008/04/23 11:01
S70	61338	(coil or magnet) and transparent	US-PGPUB; USPAT	OR	ON	2008/04/23 11:01
S71	5	S68 and S70	US-PGPUB; USPAT	OR	ON	2008/04/23 11:01
S72	4	S71 and S63	US-PGPUB; USPAT	OR	ON	2008/04/23 11:01
S73	107	flat adj panel adj speaker	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S74	665	transparent near4 diaphragm	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S75	9	S73 and S74	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S76	4258840	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S77	2	S76 and S75	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S78	5	(diaphragm and transparent and vibrat\$3 and display and frame).clm.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S79	27	(diaphragm and transparent and display and frame).clm.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58

S80	9	("20020061114" "20030003879" "20030059080" "4618025" "4997058" "5394478" "6176345" "6332029" "6694038").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 15:58
S81	44	(US-20070032130-\$ or US-20060028383-\$ or US-20040097274-\$ or US-20010053228-\$ or US-20030026439-\$ or US-20050049009-\$ or US-20050064764-\$ or US-20070047745-\$).did. or (US-5870679-\$ or US-7064720-\$ or US-4857014-\$ or US-4913664-\$ or US-6217351-\$ or US-4894026-\$ or US-5906512-\$ or US-6039580-\$ or US-6094161-\$ or US-6114986-\$ or US-6174205-\$ or US-6183299-\$ or US-6215656-\$ or US-7221960-\$ or US-5475872-\$ or US-5805985-\$ or US-6979231-\$ or US-4846720-\$ or US-4180819-\$ or US-4299434-\$ or US-4370630-\$ or US-4381129-\$ or US-4396242-\$ or US-4989012-\$ or US-4992060-\$ or US-5506455-\$).did. or (US-5556292-\$ or US-5599199-\$ or US-5608606-\$ or US-5650921-\$ or US-5696861-\$ or US-5775934-\$ or US-5928000-\$ or US-5993239-\$ or US-6010352-\$ or US-RE36700-\$ or US-6079994-\$ or US-6099334-\$ or US-6283790-\$ or US-6296492-\$).did.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S82	5	S81 and "455"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S83	4175	diaphragm near4 coil	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S84	49	S83 and "455"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S85	23	S84 and S76	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S86	56	diaphragm same (horizontal or lateral) near4 coil	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S87	4258840	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S88	29	S86 and S87	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58

S89	29176	"381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S90	4062	(speaker same (display or LCD or liquid near4 crystal)).clm.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S91	307	S89 and S90	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S92	26	S91 and diaphragm and @ad<="20031231"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S93	880	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S94	519	S93 and @ad<="20031231"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S95	119	S94 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S96	59	S95 and (display or screen or lcd)	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S97	880	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S98	49	S97 and magnet near4 (frame or diaphragm) and coil near4 (diaphragm or frame)	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S99	763	S97 and @ad<="200312231"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S100	165	S99 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S101	13	S98 and transparent	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S102	1	"4352961".pn.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S103	1	"20060093165"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S104	1	direct near4 vibrat\$3 and flat near4 panel with speaker	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S105	9	direct\$2 near4 vibrat\$3 and flat near4 panel with speaker	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S106	146	direct\$2 near4 vibrat\$3 near4 diaphragm	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S107	4590654	@ad<="20031231"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S108	106	S106 and S107	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S109	23	S108 and \$4phone	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S110	0	("2006/0227981").URPN.	USPAT	OR	ON	2008/12/29 15:58
S111	5	S109 and transparent	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58

S112	1004	381/152.ccls. or 381/306.ccls. or 381/333.ccls. or 381/388.ccls. or 381/124.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S113	604	S112 and S107	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S114	99	S113 and transparent	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S115	4118385	@ad<="20021231"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S116	527	S112 and S115	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S117	85	S116 and transparent	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S118	28	S117 and diaphragm	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S119	6	("3947644" "4352961" "5185549" "6023123" "6363157" "6427017").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/29 15:58
S120	12	S118 and coil and magnet	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S121	1184	coil and magnet same frame and vibrat\$3 and diaphragm	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S122	4590654	@ad<="20031231"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S123	728	S121 and S122	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S124	37	S123 and flat near4 panel	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S125	11	S124 and \$4phone	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S126	3283	magnet same coil same diaphragm	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S127	3804338	S126 @ad<="20020425"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S128	1934	S126 and @ad<="20020425"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S129	292	S128 and \$4phone	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S130	195	S129 and "381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S131	477	S128 and coil near4 (attached or connected or adhered) near4 diaphragm	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S132	366	S131 and "381"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S133	64	S132 and magnet\$2 near4 (attached or connected or adhered) near4 (frame or housing or cas\$3 or support)	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58

S134	263	381/333.ccls.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S135	4258840	@ad<="20030425"	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S136	163	381/333.ccls. and S135	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S137	12	("6427017").URPN.	USPAT	OR	ON	2008/12/29 15:58
S138	6	S137 and transparent	USPAT	OR	ON	2008/12/29 15:58
S139	2	"6289101".pn. or "6522760". pn.	USPAT	OR	ON	2008/12/29 15:58
S140	10	(US-20020034313-\$).did. or (US-7039206-\$ or US-6427017- \$ or US-6760455-\$ or US- 6791519-\$ or US-6940564-\$ or US-7120264-\$ or US-7151837- \$ or US-6289101-\$ or US- 6522760-\$).did.	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S141	594432	coil or magnet and transparent	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S142	65367	(coil or magnet) and transparent	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S143	5	S140 and S142	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58
S144	4	S143 and S135	US-PGPUB; USPAT	OR	ON	2008/12/29 15:58

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